US ERA ARCHIVE DOCUMENT



# **HEALY SYSTEMS, INC.**

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E-Mail: sales@healysystems.com • Website: www.healysystems.com

September 30, 2004

Tom Driscoll US EPA/OAQPS/EMAD/EFPAG 109 TW Alexander Drive (D243-02) Research Triangle Park, NC 27709

Re: Response to Stage II Vapor Recovery Systems Issue Paper of August 12, 2004

Dear Tom:

I would like to share my thoughts and observations with you and the stakeholders present at the meeting held on Monday, September 20, 2004. It is very important that we understand the full effect of removing Stage II vapor recovery equipment before we attempt to find a suitable equation to define "wide spread use" of ORVR as a benchmark to start the process. Your Issue Paper reflects the wide spread public understanding of this issue by assuming that ORVR fleet penetration at some point will make Stage II redundant. This is not the case. Several years ago CARB staff was making the same assumption until further review disclosed that approximately 20% of the gasoline dispensed currently and in the foreseeable future will fuel non- ORVR vehicles and other motor driven units refueled at public service stations and other refueling locations.

If Stage II vapor recovery equipment is removed then 100% of the non- ORVR refueling vapor will be lost to the environment. Under these conditions the maximum total fleet vapor recovery efficiency when 100% of the scheduled ORVR equipped vehicles are in service will be approximately 76% based on the following simplified calculation.

Avg. Refueling Loss =  $\frac{20\% \text{ non-ORVR} \times 100 \text{ units of loss} + 80\% \text{ ORVR} \times 5\% \text{ of loss}}{100\%}$ 

Avg. Loss = 24 units of loss

Vapor Recovery Efficiency =  $\frac{100-24}{100}$  x 100 = 76%

This appears to me to be a major step backwards in our efforts to improve air quality.

It is recommended that current data from the US Department of Transportation and other sources be used to determine the actual distribution of gasoline to these two broad categories of motor vehicles in order to more accurately calculate the impact of dismantling Stage II systems.



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A second recommendation for consideration is based on the need to compare equivalent operational characteristics for both ORVR and Stage II methods of vapor recovery. It is apparent that the <u>in use</u> vapor recovery efficiency of Stage II equipment has been considered in preparing the Issue Paper however I do not find any reference to <u>in use</u> vapor recovery efficiency for ORVR. I recommend that the EPA evaluate a selection of 1998 ORVR vehicles with high mileage, using shed test methods or their equivalent to determine the <u>in use</u> capabilities of ORVR vehicles. The "wide spread use" calculation could then be made with greater accuracy to determine the point in time when Stage II systems might be considered redundant.

Turning now to other matters related to current Stage II performance, I would like to share with you information developed by the New Hampshire Department of Environmental Services (a copy of the data spread sheet is enclosed for your reference). They have been monitoring a large percentage of the Stage II equipped GDF's to determine the extent of ground water pollution. To date their findings show that 129 GDF's of a total of approximately 300 are showing levels of MtBE that are unacceptable. The present standard for potable water is 13 parts per billion and all of the offending GDF's are well in excess of this limit. Many of these GDF's show peak levels of 100,000 parts per billion and they are with rare exception due to vapor fugitive emissions below grade. Almost all of the GDF's are assist vapor recovery systems. No ORVR compatible assist systems are on this list. Studies performed by the University of California, Davis in a report dated May 31, 2002 confirm that MtBE vapor releases are strongly associated with assist type systems.

The source of this pollution is positive pressure build- up in the ullage space of the underground storage tanks, which drives fugitive emissions to pollute the ground water and soil around the tanks. This problem is intrinsic in the design of assist systems. The assist design concept is based on the need to recapture vapor from the fill pipe of non-ORVR vehicles in equal volume to the gasoline dispensed during refueling. The system works well with these vehicles, recapturing at least 95% of the vapor displaced by the gasoline. However when refueling an ORVR vehicle there are no vapors to recapture in the vehicle's fill pipe and therefore the system recaptures essentially pure air in equal volume to the gasoline delivered and returns it the underground tank vapor space. The air returned to the underground tank will dilute the hydrocarbon concentration in the ullage space, thus promoting the evaporation of gasoline to re-establish the hydrocarbon equilibrium. Since the vapor space is already fully occupied with an air vapor mixture at atmospheric pressure the additional volume of gasoline vapor due to evaporation causes the pressure to rise. It is not uncommon to see pressure levels of +3" W.C. when the underground tanks and associated vapor piping are tight. Under these conditions vapor is lost through the pressure/vacuum vent valve to the surrounding air. If the system has large fugitive emission leaks UST pressure will not rise as much because the vapor is escaping below grade to the sub soil. It is well known in the industry that 95% to 98% of GDF's do not pass the Stage I tightness test in the "as found" condition (a copy of Stage I test results by Crompco Corp. is enclosed for your reference- note failure definition). It is very likely therefore that a service station with vacuum assist vapor recovery will be polluting the soil and ground water due to ORVR vehicle refueling.

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The environmental damage does not stop at the New Hampshire border and thus represents a national concern. It is urgent therefore that the US EPA apply every effort to address this problem by requiring the use of CARB certified ORVR compatible Stage II vapor recovery equipment for new GDF's and on an accelerated schedule require retrofitting existing GDF's.

The acceptance of the new ORVR technology is damaged by the widely held belief that ORVR compatibility will cost too much. We would like the US EPA to know that there is no cost penalty for ORVR compatibility. For example, the cost of the Healy ORVR vacuum assist system is actually less than a Gilbarco Vapor-Vac or a Dresser Wayne-Vac system, neither of which is ORVR compatible. The comparison is based on a complete system including hanging hardware, installed and ready for use at the service station (a copy of our cost comparison data is enclosed for your reference).

It is therefore very misleading when oil companies claim that they would be forced to spend substantially more money for the ORVR feature. I believe that manufacturers of the Balance System and the Hirt System can make the same cost effectiveness argument.

The Enhanced Vapor Recovery (EVR) program that California has been pursuing for several years has resulted in the certification of several new Stage I vapor recovery systems. These products have made a dramatic difference in the ability to maintain leak tightness over long periods of time. The service station that the Healy 900 Nozzle Systems has used to successfully complete the EVR Stage II certification for CARB includes EVR Stage I equipment. Data from our test site, covering the period from September 2002 until the present time, has recorded only one Stage I leak problem in two years. Healy Systems is proud to be the first to pass EVR Stage II testing. CARB plans to issue our certification in early November 2004.

The Healy 900 Nozzle and the Model 9942 Clean Air Separator have been added to our product line to meet the new certification requirements. The nozzle meets the EVR requirement for Spillage, Liquid Retention, Spitting and Post Refueling Drips, while the Clean Air Separator provides the necessary underground storage tank pressure control. The price increase for the Healy 900 Nozzle System is modest compared to the current 800 Nozzle System. For example a four uni-hose dispenser site would cost approximately \$7,400 more with the Model 900 nozzles and a Clean Air Separator (see enclosed Price List dated August 1, 2004).

California will require all new service stations to install EVR certified Stage I and Stage II equipment beginning in January 2005. When fully implemented this new technology will provide an additional 25 Tons/day of hydrocarbon vapor recovery statewide. If you have any questions about the material presented above please do not hesitate to contact me.

Sincerely,

James W. Healy

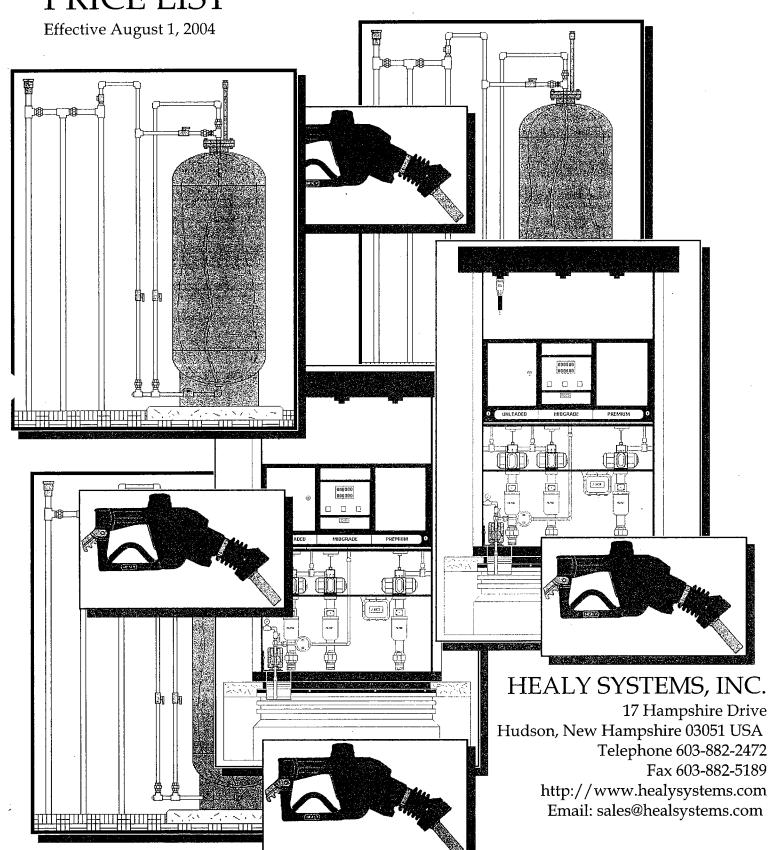
Enclosures

Stage	II Testi	na Per	forme	ed by Cr	omnco	Corn	Retwee	en 6/30	/03 and	1 9/17/0	<b>1</b>	
	PD	PD	Fail	WetB	WetB	Fail	DryB	DryB		A/L	A/L	Fail
ST.	Tests	Fails	%	Tests	Fails	%	Tests	Fails	Fail %	Tests	Fails	%
СТ	180	34		143		ļ	143		2.1	54	22	40.7
DC	60			46			46		0	, ,	30	42.9
DE	115			50			49	-	0			31.1
FL	92		8.7	60			60	2	3.3	51	2	3.9
MA	1268	115	9.1	678	18	2.7	680	9	1.3	1029	248	24.1
MD	723	142	19.6	71	8	11.3	71	5	7	621	211	34
ME	28	5	17.9	3	1	33.3	3	0	0	24	7	29.2
NC	2	0	0	2	0	0	2	0	0	0	0	0
NH	67	8	11.9	56	1	1.8	56	1	1.8	44	15	34.1
NJ	2496	672	26.9	1533	113	7.4	1532	52	3.4	606	153	25.2
NY	914	223	24.4	731	64	8.8	732	35	4.8	279	93	33.3
ОН	131	8	6.1	64	0	0	4	1	25	157	27	17.2
PA	1039	128	12.3	378	29	7.7	379	20	5.3	1019	251	24.6
RI	155	16	10.3	76	5	6.6	76	1	1.3	157	51	32.5
SC	2	0	0	0	0	0	0	0	0	0	0	0
VA	231	67	29	82	8	9.8	82	6	7.3	95	33	34.7
VT	11	0	0	1	0	0	1	0	0	1	0	0
Total	7514	1446	12.78 avg	3974	259	6.5 avg	3916	135	3.4 avg	4313	1176	27.3 avg
Blocka	ures are d tank fitti ge failure	ngs, dis s are ur	pensei idergro	r fittings a	and hang kage fail	jing ha lures.	rdware w	hile on-s	ite.			
A/L failures are considered failures even if 1 fueling point at the site fails and cannot be repaired by the technician while on site or if a fueling point is out of order at the time of the test.  The only time A/L is considered a pass is if all fueling points are working properly at the time the												
	test was	condu	cted.									

	Average Multiproduct Dispenser (MPD) Conversion Cost	ct Dispenser (MPD	) Conversion Cos	t	
	To Convert A Tv	To Convert A Two-Hose Multiproduct Dispenser	duct Dispenser		
L.			MANUFACTURER LIST PRICES	ER LIST PRICES	
		ODdvdIID	DRESSER	DRESSER	HEALY
	FINEMORY	GILBARCO	WAYNE	WAYNE	SYSTEMS
	COMPONEINI	7. 4 TO C C 4.73	O V 13 T V 1 V 1 V 1 V 1 V 1 V 1 V 1 V 1 V 1 V	HEALY	ORVR
		VAPORVAC	WAINEVAC	FACTORY	FIELD
		NON OKVK	NON OKVK	INSTALLED	INSTALLED
<u> </u>	Vacuum Source	\$3,020	\$ 2,795	\$2,796	\$ 1,679
•	Hose Assembly, Including Breakaway, Pigtail	496	496	829	829
•	Vacuum-Assist Stage II Nozzle	480	480	583	583
•	Electrical and Vapor Installation Kits	<b>o</b>	-0-	-0-	322
•	Installation	-0-	-0-	-0-	300
	Total Dispenser Cost:	\$3,996	\$3,771	\$4,057	\$3,562









# LIST OF CONTENTS Contents Page Stage II Vapor Recovery Nozzles VP1000 Series Dispenser-Mounted Vacuum Source ........................Including Spare Parts & Accessories ................................9 VP1200 Series Self-Contained-Dispenser-Mounted Vacuum Source......Including Spare Parts & Accessories .......10



	TERMS AND CONDITIONS
Claims:	
	transportation company.
Delivery:	Healy Systems is not responsible for any delays in shipment or for any damage
	suffered by reason of such delays that are beyond Healy's control, such as fires,
·	strikes, floods, or other contingencies.
Drop Shipment Discount:	Any order greater than \$1,000 list total can be drop shipped without penalty. Any order under \$1,000 list total will be drop shipped at a maximum 10% discount.
Freight:	
	orders totaling \$3,000.00 or more net price for shipments within the Continental
	US. * Except Clean Air Separator. This has a flat -rate destination charge of
	\$139.00 to our central warehouse in Los Angeles. A Clean Air Separator will be
	shipped from the Los Angeles warehouse freight collect or can be picked-up by
	your carrier.
Minimum Order:	One hundred dollars (\$100.00) list. Line item minimum is ten dollars (10.00) list.
Payment Terms, Approved Accounts:	Net 30 Days. Invoices over thirty (30) days may be subject to a service charge of
	one and one-half percent (1-1/2%) per month.
Payment Terms, Non-Approved Accounts:	Prepayment of goods and freight.
Prices:	The possession of this price list by any person is not to be construed as an offer to
D. L. M.	sell the goods listed herein at prices stated.
Product Information:	
	Specifications subject to change without notice.
	Not responsible for incorrect information contained within price list.
	Contact Healy Systems, Inc., for specific CARB and UL approval information. Protected under US Patents No. 4,056,131; 4,057,086, 4,095,626, 4,336,830;
	4,343,337, and 5,327,944, as well as foreign patents and patents in process.
Rebuilt Nozzle Program:	Healy warrants rebuilt nozzle workmanship and materials to be free of defects for
	a period of 14 months from the date of shipment from Healy. Exclusions: This
	warranty excludes the field replaceable "rubber/plastic" parts at the front of the
	nozzle (i.e., boot, scuffguard, face seal assembly, etc.) or the spout or parts that
	have been subjected to misuse, handling or incorrect installation. Cores must be
	returned no later than sixty days after issue of RMA number or the RMA will be
Returned Goods:	canceled.
Acturica Goods	Resalable material of standard manufacture must not be returned to Healy
	without first receiving written permission. Products accepted for return must be in first class condition, resalable as new, and shipping charges prepaid. Minimum
	handling charge is twenty percent (20%) deducted from price paid by distributor
	or current price, whichever is lower.
	of current price, willeflever is lower.

PRODUCT CERTIFICATION & APPROVAL CUIDE					
PRODUCI	PRODUCT CERTIFICATION & APPROVAL GUIDE				
<u>Product</u>	CARB Certified For Use With	CARB Executive Order	No.		
<u>Underground Sites</u>					
VP500 Vane Pump Central Vacuum Source	600 Bootless Nozzle/6280A S	ystem MonitorG-7	0-165		
2000 Blower Central Vacuum Source	600 Bootless Nozzle/6280A S	ystem MonitorG-7	0-165		
9000 Mini-Jet Central Vacuum Source	600 Bootless Nozzle/6280A S	ystem MonitorG-7	0-165		
VP500 Vane Pump Central Vacuum Source	400 ORVR Nozzle/6280A Sys	stem MonitorG-7	0-186		
9000 Mini-Jet Central Vacuum Source	400 ORVR Nozzle/6280A Sys	stem MonitorG-7	0-186		
VP1000 Dispenser-Mounted Vacuum Source	600 Bootless Nozzle		'0-183-AA		
VP1000 Dispenser-Mounted Vacuum Source	800 ORVR Nozzle	G-7	0-191-AA		
VP1000 EVR Dispenser-Mounted Vacuum Sou	arce 900 EVR Nozzle with Clean A	ir SeparatorPer	ding		
VP1200 Dispenser-Mounted Vacuum Source	International Approvals	•	Ü		
	• •				
<u>Aboveground Sites</u>					
100 Jet Pump Central Vacuum Source	400 ORVR Nozzle/6280A Sys	tem MonitorG-7	0-187		
9000-Mini-Jet Central Vacuum Source	400 ORVR Nozzle/6280A Sys	tem MonitorG-7	0-187		
VP500 Vane Pump Central Vacuum Source	400 ORVR Nozzle/6280A Sys	tem MonitorG-7	0-187		
VP1200 Dispenser-Mounted Vacuum Source	International Approvals				



# STAGE II VAPOR RECOVERY NOZZLES

Nozzles are supplied with black scuffguards unless otherwise specified.

To order a nozzle with a scuffguard color other than black, replace "X" with appropriate code:

X =

<u>Blue</u> BL

Gold GD

Green G

<u>Red</u> R

Silver SL

<u>White</u> W

<u>Yellow</u> Y

800 SERIES ORVR-COMPATIBLE NOZZLE
Part No.
800-02G3 FSORVR-Compatible, Unleaded, Full Service, with Black (or "G3X" for color) Scuffguard (New)\$298.00
800-02G3 RFSORVR-Compatible, Unleaded, Full Service, with Black (or "G3X" for color) Scuffguard (New)\$298.00
800-02G3 SSORVR-Compatible, Unleaded, Self Service, with Black (or "G3X" for color) Scuffguard (Rebuilt)\$298.00
800-02G3 RSSORVR-Compatible, Unleaded, Self Service, with Black (or "G3X" for color) Scuffguard (New)\$298.00
800 Core
6358
469
Z057
(1) 6249 Spring (1) 6130-4 Lever Accombly (1) 240 CC Pol N. (1) 210 F. (2) 239-L Rear Guard Rivet,
(1) 6249 Spring, (1) 6130-4 Lever Assembly, (1) 240-SS Pal Nut, (1) 219 Front Guard Rivet,  235-C
640956
279A
6408SL
Total Individual Control of the Cont
6206-OR800 Nozzle Spout O-Ring Kit (Includes 414-1 O-Ring, HB-2 O-Ring and 6201 O-Ring)\$3.40
\$3.40

COO CEDITEC DO OMA TOCA AND THE	
Part No.  600 SERIES BOOTLESS NOZZLE  Part No.	
Description  Description	Price
600-02G3 FSBootless, Unleaded, Full Service, with Black (or "G3X" for Color) Scuffguard (New)	\$291.50
1 300 32 30 10 0	
	Φ7.00 25 75
==== Hold-Open Clip Nt, including: (1) 6238 Hold-Open Clip (1) 239 I Poor Crond Direct	
1) 447 3DIME; (1) 0130-4 Lever Assembly: (1) 740-SS Pol Nivt. (1) 210 Email Control Prince	¢0 0E
200 C000 NOZZIE LEVER COVER	
Todo	
TOTAL CONTINUES OF THE PROPERTY OF THE PROPERT	
The second secon	A
The state of the s	
	\$8.85
6206-G4	\$8.85
6206-OR	\$62.40
6119	\$3.40
6118	\$2.20
6118	\$8.85
6118-1	\$8.85



400 SERIES ORVR-COMPATIBLE NOZZLE	
Part No. Description	Price
400-04 FSORVR-Compatible, Unleaded, Full Service, with Black (or "-04X" for Color) Scuffguard (New)	\$275.60
400-04 RFSORVR-Compatible, Unleaded, Full Service, with Black (or "-04X" for Color) Scuffguard (Rebuilt)	\$275.60
400-04 SSORVR-Compatible, Unleaded, Self Service, with Black (or "-04X" for Color) Scuffguard (New)	
400-04 RSSORVR-Compatible, Unleaded, Self Service, with Black (or "-04X" for Color) Scuffguard (Rebuilt)	
400 Core	
408-2A400 Nozzle Spout Assembly, Unleaded	
408-OR400 Nozzle Spout O-Ring Kit (Includes 414-1 O-Ring and HB-2 O-Ring)	
289400 Nozzle Stem Seal Assembly (The Only Field Replaceable Internal Nozzle Component)	
409400 Nozzle Boot Assembly, No Clamp	\$54.60
425400 Nozzle Boot Clamp	\$2.20
279A400 Nozzle Boot Face Seal Assembly With Wire	
453400 Nozzle Boot Only, No Clamp or Face Seal	\$30.65
283400 Nozzle Face Seal Wire	
6358400 Nozzle Handguard (order Z057 for mounting hardware)	
469400 Nozzle Handle Cover	\$5.75
Z057400 Nozzle Hold-Open Clip Kit, Including: (1) 6238 Hold-Open Clip, (1) 239-L Rear Guard Rivet,	
(1) 6249 Spring, (1) 6130-4 Lever Assembly, (1) 240-SS Pal Nut, (1) 219 Front Guard Rivet	\$8.85
235-C400 Nozzle Lever Cover	\$2.20
468400 Nozzle Scuffguard, Black	
468BL400 Nozzle Scuffguard, Blue	\$8.85
468GD400 Nozzle Scuffguard, Gold	
468G400 Nozzle Scuffguard, Green	
468R400 Nozzle Scuffguard, Red	
468SL400 Nozzle Scuffguard, Silver	\$8.85
468W400 Nozzle Scuffguard, White	\$8.85
468Y400 Nozzle Scuffguard, YellowSp	ecial Order



75B SERIES 3/4" STANDARD HEALY HOSE

Healy Straight Thread (S2) Swivels at Nozzle and Breakaway Ends

Hose is Supplied in Black (75B) Unless Otherwise Specified; Contact Healy Systems for Pricing and Availability of Custom Colors Healy Hoses are Approved by CARB for Up to 15-Foot Overall Assembly (Including Breakaway and Pigtail) Lengths

Part No.	Lengins
	<u>Price</u>
75B-045-0252	\$103.00
75B-040-S2S204.0' Standard Healy Coaxial Hose, Black	\$106.50
75B-000-525205.0 Standard Healy Coaxial Hose, Black	¢100 E0
1 700-000-0202	A
1 / DD-000-0202	444400
700 000 020200.5 Standard Fleary Coaxial Flose, black	\$119.50
755-070-323207.0 Standard Healy Coaxial Hose, Black	\$122.00
1 /3D-U/3-5252	445400
75B-080-S2S208.0' Standard Healy Coaxial Hose, Black	#120.00
75B-085-S2S208.5' Standard Healy Coaxial Hose, Black	#122.50
75B-090-S2S2	\$132.30
75B-095-S2S2	\$135.50
75B-100-S2S2	\$139.00
75B-105-929 10 5' Standard Healty Coastiel Hose Blad.	\$142.00
75B-105-S2S2	\$146.00
75B-110-S2S2	\$149.00
75B-115-S2S2	\$152.00
73B-120-323212.0 Standard Healy Coaxial Hose, Black	\$155.00
/5B-125-525212.5' Standard Healy Coaxial Hose Black	#1 FO 00
75B-130-525213.0' Standard Healy Coaxial Hose, Black	\$162.00
75B-135-S2S213.5' Standard Healy Coaxial Hose, Black	\$165.00

### PIGTAILS FOR USE WITH STANDARD HEALY HOSE

F2 = Fixed End (F) with Healy Straight Thread (2)

F3 = Fixed End (F) with Metric Thread (3)

S2 = Swivel End (S) with Healy Straight Thread (2)

S4 = Swivel End (S) with Balance-Type Thread (4)

	<u>Part No.</u>	Description	Price
ı	75B-008-F2F2	Straight Thread Fixed Ends on Breakaway and Dispenser Ends	\$54.00
ı	75B-008-F3F2	Straight Thread Fixed End on Breakaway End: Metric Thread on Dispenser End	Ψ54.00 Φ54.00
	75B-008-S2F2	Fixed End on Breakaway or Dispenser End; Swivel on Nozzle (O-Ring) End	Ψ61 E0
	75B-010-S4F2	Balance-Type, Swivel on Dispenser End and Fixed Thread of Breakaway End	
-		Thea Thea Thea of Dicakaway End	фоб.30

	75B SERIES COAXIAL HOSE ADAPTERS	
Part No.	Description	Price
CX6-ANon-Vapor-Read	dy Standard (Low Hose) Units	\$35.50
CAB-VVZABalance-Vapor-l	Ready Dispensers (Obsolete Use 75B-010-S4F2 Piotail as Replacement)	NI/A
CAB-VV3ANon-Vapor-Read	dy Multiproduct (High Hose) Units	\$69.00
565AHose Adapter U	pgrade Kit (To Convert "Non-A" Hose Adapter To "A" Version)	\$3.40
740Hose Thread Ad	apter, Healy Straight (Female) Thread to Healy Pipe (Male) Thread	\$32.00
609Hose Thread Ad	apter, Metric (Male) to Healy Straight (Female) Thread	\$32.00



#### 75B SERIES 3/4" HEALY HOSE FOR BALANCE-READY DISPENSERS

Healy Straight Thread (S2) Swivel at Nozzle and Balance Thread (S4) at Breakaway Ends Hose is Supplied in Black (75<u>B</u>) Unless Otherwise Specified; Contact Healy Systems for Pricing and Availability of Custom Colors Healy Hoses are Approved by CARB for Up to 15-Foot Overall Assembly (Including Breakaway and Pigtail) Lengths

	The state of the s	icit g ii i i
Part No.	<u>Description</u>	Price
75B-085-S4F208.5	' Balance-Ready Dispenser Coaxial Hose, Black	\$148,50
75B-090-S4F209.0	Y Balance-Ready Dispenser Coaxial Hose, Black	\$151.00
75B-095-S4F209.5	' Balance-Ready Dispenser Coaxial Hose, Black	\$154.00
75B-100-S4F210.0	Y Balance-Ready Dispenser Coaxial Hose, Black	\$157.50
75B-105-S4F210.5	Balance-Ready Dispenser Coaxial Hose, Black	\$161.00
75B-110-S4F211.0	Balance-Ready Dispenser Coaxial Hose, Black	\$164.00
75B-115-S4F211.5	' Balance-Ready Dispenser Coaxial Hose, Black	\$167.00
75B-120-S4F212.0	' Balance-Ready Dispenser Coaxial Hose, Black	\$171.00
75B-125-S4F212.5	Balance-Ready Dispenser Coaxial Hose, Black	\$174.00
75B-130-S4F213.0	Balance-Ready Dispenser Coaxial Hose, Black	\$177.00
75B-135-S4F213.5	' Balance-Ready Dispenser Coaxial Hose, Black	\$180.50

BREAKAWAYS FOR USE WITH STANDARD AND BALANCE-READY DISPENSER HOSE				
<u>Part No.</u>	Description	Price		
807	Breakaway, Swivel-Type**, for Standard and Balance-Type Hose	\$174.00		
8701VV	Breakaway, 350-Lb. Strength, With Vapor Path Shut Off, for Standard Hose Only	\$113.50		
715VV	Repair Kit for 8701VV Breakaway	\$29.65		
716	Shear Screw, Brass	\$4.45		
761	Scuffguard, Nozzle End for 8701VV Breakaway	\$4 45		
762	Scuffguard, Dispenser End for 8701VV Breakaway	\$4.45		
787	Shear Screw, Nickel-Plated Brass			
795	Clamp Repair Tool for 8701VV Breakaway	\$131.50		
Z055	O-Ring Kit (for 8701VV with Nickel-Plated Shear Screw)	\$7.00		

HOSE ACCESSORIES AND SPARE PARTS		
<u>Part No.</u>	Description	Price
Z056	Hose-End Seal Kit, Including: (4) 291 O-Ring, (4) HB-4 Quad Seal, (2) 75414 O-Ring	\$10.95
HB-4	Hose-End Quad Ring	\$1.85
HB-2	Hose-End O-Ring, Large	\$1.30
516Hose-End O-Ring, Large, for S4 Hose End		\$1.30
1301	Hose Flow Limiter, for Installation Between Dispenser and Hose	\$42.00
8103	Hose Clamp	\$7.80

\*\*CARB Approvals Have Been Received For Healy's "Balance-Type" Dispenser Hose And For Healy's 807 Swivel-Type Breakaway



	DISPENSER RETROFIT KITS	
	Hose Adapters Are Not Included In Retrofit Kits	
Part No.	Description	Price
Z008	Standard (Low Hose), for Single-Hose Dispenser	
2007	Jtalidald (Low flose), for Dual-Hose Dispenser	#110 FO
ZUTT	Uluversal, for Six-Mose Multiproduct Dispenser	#OE1 FO
ZUTU	Offiversal, for Four-Hose Multiproduct Dispenser	<b>0101 E0</b>
Z047	Universal, for Two-Hose Multiproduct Dispenser	\$109.50

6280A SYSTEM MONITOR	
Use With Central Vacuum Source Systems Only	
Required When Station Monthly Throughput Is More Than 10,000 Gallons	
Part No. Description	
6280A	<u>Price</u>
Vacuum Vent Valve, (1) SMCB Control Box, (1) 9800-1 Pressure Switch, (1) HPV1.5 Pressure Vent	
Valve (1) 9466 1" Check Valve	
Valve, (1) 9466 1" Check Valve	\$2,797.50
1005W Control Box STP-Songing Polory 2 Product Innut	\$262.50
1005W	\$82.20
1005W-4	\$82.20
6275 Vent Sensor Assembly	\$459.00
62755	\$207.50
6280	\$1,622.00
628021	\$35.40
626626Frinter Paper Roll	<b>¢ว ว</b> ก
020029Printer Ribbon Cartridge	¢7.90
6299	\$339.00
3000 Back Pressure Condensate Drain Check Valve 3/4" (For International Lice)	#100 F0
1 2±00Dack Pressure Condensate Drain Check Valve 1" (For USΔ Use)	#100 F0
9800-1Pressure Switch (Replaces 93928 Pressure Switch)	¢104 E0
CDIAControl Box Relay-with-Socket Kit	¢27.40
111 v 1.5Pressure vent valve, +1.5" WC Pressure	¢02 E0
FIFVVVacuum Vent Valve, +3" WC Pressure, -8" Vacuum	¢02 50
NozouRebuilt System Monitor Only (With Reusable-Core Return)	#1 2F0 F0
SIVICEControl Box Only, With Healy 1005W Solid State Relay	COOF FO
SMCB-1Control Box Only, Without Healy 1005W Solid State Relay	\$160.00

D	SYSTEM TEST EQUIPMENT	
Part No.	Description	Price
2302A	Gage Kit, 1-0-1" Water Column Magnehelic	Ø101 F
0039	Spout Adapter, Air/Liquid (A/L) Ratio Test (For Use With 600 Series Nozzle Only)	¢107.50
0034-1	Sieeve, Air/Liquid (A/L) Katio Test (For Use With 800 Series Nozzle Only)	¢107 E/
232342A	Gage Kit, U-100° Water Column	¢121 E
10/0/	Gage Kit, Talik Correction (Obsolete)	
Z076Z077	Flange Kit, (1) 1-1/2 NPT x ½ NPT Reducer, (2) ½ NPT x ¾ Hose Barb Fitting, (1) 6.0' x ¾" Tygon Hose, (1) 600 Series Nozzle Spout Adapter	\$4,031.00



	VP1000 SERIES DISPENSER-MOUNTED VACUUM SOURCE	
Part No.	Description	Price
VP1000 A	For Use With 120 VAC Solenoid Dispensers Only; Use If a Dispenser-Specific VP1000 Version is	
VI 1000/A	Not Shown Below (VP1000D-K); Includes 1360A Dispenser Interface Module Assembly and 1404	
	Universal Mounting Kit Assembly	\$1.678.50
VP1000B	For Use with Electronic Blender Dispensers Only; Use If a Dispenser-Specific VP1000 Version is Not	,
VI 1000D	Shown Below (VP1000D-K); Includes 1360A Dispenser Interface Module Assembly and 1404	
	Universal Mounting Kit	\$1,678.50
VP1000C	Wayne Ovation and 3 Vista Series Dispensers Only (Includes 1365A Dispenser Interface Wiring	,
. 110000	Harness Assembly and 1404 Universal Mounting Kit)	\$1.751.50
VP1000D	Gilbarco 300 Blender Dispensers Only (Includes MC100 Module, 1368A Dispenser Interface	,,,
V1 1000D	Module/Wiring Harness Assembly and 1404 Universal Mounting Kit)	\$1,735.50
VP1000E	International Only	tact Healv
	Wayne 1V and 2V Blender Dispensers Only (Includes MC100 Module, 1363A Dispenser Interface	J
VI 10001	Wiring Harness Assembly and 1404 Universal Mounting Kit)	., \$1,751.50
VP1000G	Wayne Vista and DL Non-Blender Dispensers Only (Includes MC100 Module, 1354A Dispenser	
1110000	Interface Wiring Harness Assembly and 1404 Universal Mounting Kit)	\$1,751.50
VP1000H	Tokheim Premier C Blender Dispensers with 24 VDC Solenoids Only (Includes MC100 Module,	
, , , , , , , , , , , , , , , , , , , ,	1362A Dispenser Interface Wiring Harness Assembly and 1404 Universal Mounting Kit)	\$1,751.50
VP1000I	Tokheim Earlier-Series Blender Dispensers with AC and DC Solenoids (Includes MC100 Module,	
,	1372A Dispenser Interface Wiring Harness Assembly and 1404 Universal Mounting Kit)	\$1,751.50
VP1000K	Gilbarco Encore 300 and 500 Series Three-Product Non-Blender Dispensers Only (Includes 1369A	
	Dispenser Interface Wiring Harness Assembly and 1404 Universal Mounting Kit)	\$1,751.50
VP1000L	Gilbarco Encore 300 and 500 Series (Blenders and Non-Blenders) Dispensers Only with 24 VDC	
	Solenoids NOTE: For Dispensers Manufactured after April 25, 2003 (Includes 1373A Dispenser	
	Interface Wiring Harness Assembly and 1404 Universal Mounting Kit)	\$1,751.50
1316	Potted Conduit Assembly, 6"	\$65.00
1341A	VP1000 External Pump Housing, Stainless Steel	\$335.00
1360	Wire Harness for Use with MC100 Module (Generic)	\$17.50
1360A	1360 Wire Harness/MC100 Module Assembly	\$203.50
1362	Wire Harness for Use with Tokheim Premier C Series Blender Dispensers with 24 VDC Solenoids	\$73.50
1362A	1362 Wire Harness/MC100 Module Assembly	\$276.50
1363	Wire Harness for Use with Wayne 1V and 2V Blender Dispensers	\$73.50
1363A	1363 Wire Harness/MC100 Module Assembly	\$276.50
1365	Wire Harness for Use with Wayne Ovation and 3 Vista Series Dispensers	\$73.50
1365A	1365 Wire Harness/MC100 Module Assembly	\$276.50
1368	Wire Harness for Use with Gilbarco Encore 300 Blender Dispensers Only	\$57.50
1368A	1368 Wire Harness/MC100 Module Assembly	\$260.50
	Wire Harness for Use with Gilbarco Encore 300 Non-Blender Dispensers Only	
	Wiring Harness/RCS120A-4222D Assembly	\$274.50
1372	Wire Harness for Use with Earlier-Version <b>Tokheim</b> Blender Dispensers with Both AC and DC	A=0 = -
	Solenoid Valves	
1372A	1372 Wire Harness/MC100 Module Assembly	\$266.50
1373	Wire Harness for Use with Gilbarco Encore 300 & 500 Series (Blenders and Non-Blenders)	
	Dispensers with 24 VDC Solenoid Valves	\$73.50
1373A	1373 Wire Harness/MC100 Module Assembly	\$276.50
1404	Universal Mounting Kit	\$170.50
MC100	Universal Interface Module for All Dispensers, Dual Voltage Control with Delay	\$203.50
VP1000-5	Vacuum Pump Only	\$1,304.50
	VP1000-5 Core Credit (for core in reusable condition for rebuild)	
RVP1000W	Replacement Wire Harness, 84", Installed on Usable VP1000-5	\$179.00
VP1000VRC	Vane and Rotor Replacement Kit for VP1000 Only (Includes Vanes, Rotor, Shaft Key, Cover O-Ring,	<b>#4.60.00</b>
	And White Washer)	\$160.00
	Electrical Installation Kit for VP1000 Series Vacuum Source	
Z071V	Vapor Piping Installation Kit for VP1000 Series Vacuum Source	\$111.50



	ENHANCED VAPOR RECOVERY (EVR) EQUIPMENT	
Part No.	Description	Duigo
9942	lean Air Senarator*	Price
700 E 71(10	Y N°COHIDANDIP. UNIPAGPO PING SPRINCA WITH BIOOK for "EV/DV" for all. VC - cc - 1 or -	
700 D 7 XX XQ O	A N-Compander, Unleaded, Fill Service with Black for "UVDV" for an lead Co. (C. 1901 190)	** **
700 E 7 I DO	VINTUUIUUUU. UMBAARA SEITSETVICE WITH Block for "UVDV" (1. ) C	
0000 0010111111111111111111111111111111	VVV I VVZZIE CUIE CIEUII IIIIF (IIIF) III religania condition for robusta)	
64088	00 Nozzle Scuffguard, Black	\$68.20
6408BL86	00 Nozzle Scuffguard, Black	\$9.90
.6408GD86	00 Nozzle Scuffguard, Gold	\$9.90
6408R80	00 Nozzle Scuffguard, Red	\$9.90
6408SL80	00 Nozzle Scuffguard, Silver	\$9.90
6408W80	00 Nozzle Scuffguard, White	\$9.90
6408Y80	00 Nozzle Scuffguard, White	\$9.90
6395B80	00S Nozzle Mini-Boot with Face Seal, No Clamp	\$9.90
* Refer to Freight Police	P. C.	\$59.40

\* Refer to Freight Policy on Page 3

VP1200 SERIES SELF-CONTAINED DISPENSER-MOUNTED VACUUM SO  Primarily for use in international markets; contact Healy Systems for more information.	URCE
Part No.  VP1200-1Self-Contained Suction Pump-Mounted Assembly  VP1200-3Self-Contained Suction Pump-Mounted Assembly with Flame Arrestors  VP1200VRVane and Rotor Replacement Kit	<u>Price</u> \$546.00

All Co	9000 SERIES MINI-JET CENTRAL VACUUM SOURCE Tentral Vacuum Source Installations Require Use of the Healy 6280A System Monitor Assembly Central Vacuum Sources Are Not Available for Sale for New Sites in California	
940Regu	<u>Description</u> -Jet, Non-Electric, With Syphon  k Valve Strainer Assembly  tlator Only	\$48.00
940AVacu	ium Regulator Upgrade Kit	\$151.00

VP500 SERIES VANE PUMP CENTRAL VACUUM SOURCE	
All Central Vacuum Source Installations Require Use of the Healy 6280A System Monitor Assembly  Central Vacuum Sources Are Not Available for Sale for New Sites in California	
Part No. Description	Price
VP500C/1One Cabinet-Mounted Vane Pump. Capacity: Ten Fueling Positions or a Typical Site With Five	
VP500C/2Two Cabinet-Mounted Vane Pumps. Capacity: Twenty Fueling Positions or a Typical Site With	
VP500BVane Pump On Base with U-Bolts and Angle Bracket Mounting, Replacement Only, Consoling Ten	
9214Flame Arrestor	***
VP500Vane Pump with Regulator and Flame Arrestor Assembly, Replacement VP500VR-3Vane and Rotor Replacement Kit (Pin Drive)	44 999 99



	2000 SERIES BLOWER CENTRAL VACUUM SOURCE	
1	All Central Vacuum Source Installations Require Use of the Healy 6280A System Monitor Assembly	
	Central Vacuum Sources Are Not Available for Sale for New Sites in California	
Part No.	Description	<u>Price</u>
2000C	2000 Blower, One Cabinet-Mounted Blower, Capacity: Eighteen Fueling Positions or a Typical Site	
	With Nine Nozzles In Simultaneous Full-Flow Operation. Includes 9800-1 Pressure Switch	\$4,128.00
S-5	O-Ring for 9214 Flame Arrestor	\$2.20
2000	Blower Only, Replacement	\$2,634.50
	Flame Arrestor	

100 JET PUMP CENTRAL VACUUM SOURCE	
All Central Vacuum Source Installations Require Use of the Healy 6280A System Monitor Assembly	
Central Vacuum Sources Are Not Available for Sale for New Sites in California	•
Part No. <u>Description</u>	Price
100	
1005WSTP-Sensing Relay, 3 Product Input\$8	
1258ARelief Valve Assembly	
131Diaphragm Assembly	
930O-Ring	
973Syphon	

	NOTES	
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#### **HEALY SYSTEMS LIMITED WARRANTY**

Healy Systems Inc., products are warranted for workmanship, performance, and materials when properly installed, used and maintained. All Healy products, subassemblies, and raw materials are fully inspected and tested at the manufacturing facility. Healy warrants the workmanship and materials to be free of defects for a period in accordance with the provisions stated below:

- The equipment has been installed according to the manufacturer's instructions and diagrams.
- The nearest Healy Authorized Service Representative qualified to perform service on the defective equipment must perform warranty service. Only Authorized Service Representatives are allowed to perform warranty service. Use of service personnel other than qualified Healy Service Representatives without prior written approval by Healy Systems Inc. will void the warranty.
- Claims for warranty repair or replacement service must have a written "Returned Material Authorization" (RMA) from Healy Systems, and must be shipped freight prepaid to Healy Systems for inspection.
- Healy Systems Inc., upon inspection at its facilities, and after determination of a warranty claim, will, at its option, repair or replace defective parts returned to its factory. Repaired or replaced parts will be returned freight prepaid by Healy Systems.
- Healy Systems is not responsible for labor or materials necessary to disconnect or connect the warranted product for return to Healy.
- Healy reserves the right to make changes in the design or to make additions or improvements with respect to its products without incurring any obligation to modify or install same on previously manufactured products.
- Healy warrants the workmanship and materials of the following products to be free of defects for a period of fourteen months from the date of shipment from Healy: hoses (including breakaway and pigtail); 9000 Mini-Jet, VP500 Vane Pump, 2000 Blower, Type 100 Jet Pump, VP1200 Vacuum Source; System Accessories; and Upgrade Kits and Retrofit Kits.
- Nozzles New & Rebuilt: Healy warrants the workmanship and materials to be free of defects for a period of fourteen months from the date of shipment from Healy. Exclusions: This warranty excludes the field replaceable "rubber/plastic" parts at the front of the nozzle (i.e., boot, scuffguard, face seal assembly, etc.) or the spout or parts that have been subjected to misuse, handling or incorrect installation.
- Dispenser Mounted Vacuum Source VP1000: Healy warrants the workmanship and materials to be free of defects for a period of twenty-six months from the date of shipment from Healy. This applies to the vacuum pump and motor assembly only. The Mounting Hardware and the Interface module are warranted for workmanship and materials to be free of defects for a period of fourteen months from the date of shipment from Healy.
- Vapor Recovery System Monitor 6280A: Healy warrants the workmanship and materials to be free of defects for a period of fourteen months from the date of shipment from Healy. Exclusions: Consumable items such as printer ribbons and paper are not warranted. The use of a consumable item not specified by Healy will void the warranty.
- Spare Parts: Healy warrants the workmanship and materials to be free of defects for a period of ninety days from the date of shipment from Healy.
- General Exclusions: This warranty shall not apply to any product which has been altered in any way, which has been repaired by any party other than an authorized Healy Systems Service Representative, or when such failure is due to misuse or conditions of use. Use of non-Healy replacement parts, the unauthorized addition of non-Healy items to Healy equipment, and the unauthorized alteration of Healy equipment void this warranty. Healy shall, as to each defect, be relieved of all obligations and liabilities under a components warranty if the vapor recovery system or components shall have been operated with any accessory, equipment, or a part not specifically approved by Healy and not manufactured by Healy to Healy's design and specifications. Provided, that this provision shall not apply to any accessory equipment or part in use which does not affect the safety or functionality of the vapor recovery system or system component. Healy Systems makes no warranty with respect to the Healy performance of equipment or Healy's performance of services under this agreement, express or implied, and Healy Systems hereby disclaims the implied warranties of merchantability and fitness for a particular purpose.
- This warranty shall not cover any Healy System components that have been in contact with fuels containing greater than 15% methanol, 15% ethanol, or 15% MTBE by volume. Any component(s), which is exposed to M85/E85 fuel (or other alcohol-rich fuel), is not covered under the Healy Systems warranty.

This warranty is a limited warranty. Anything in the warranty notwithstanding, implied warranties for fitness, particular purpose and merchantability shall be limited to the duration of the express warranty. Healy Systems expressly disclaims and excludes any liability for consequential or incidental damage for breach of any express or implied warranty.

Healy...Specializing in Stage II Vapor Recovery Technology



# HEALY SYSTEMS,

# INC.

**FAX** 

17 Hampshire Drive, Hudson, NH 03051 · Tel.: 1-603-882-2472 · Fax: 1-603-882-5189

October 1, Date:

9:45 Time:

Page 1 of 4, Including Cover

2004

ΑM

Page

To: Tom Driscoll

Fax No.: (919) 541-1039

Company: US EPA

From: James Healy

Subject: NH-DES

#### Message:

Dear Tom,

Attached are copies of the New Hampshire DES Report that was inadvertently omitted from yesterdays fax and mailing.

Regards,

			ļ								) didili.	0.00
	vent line repair earlier		1/02 - SW		_	F.	1985 SW Fib	2 pt. Gilbarco		199110077	Antain	T-Rim
	,		3/02 - SW	No		S	1991 DW Co No	442 2 pt. Balance	9500 32 to 3270	199108016	$\perp$	Flite-Line Sunoco
water and sewer offsite cont.	ilot candidate		11/03 - JD	20		FibNo	1987 DW Fib No	1110K Manifolded Wayne Retroff	1110K 574K to 1110K	199107017	Manchester	Mobil Senice Station No. 10068
	2	_	8/03 - SW	No.		FIDNO	1991 DW Fib No	39500 2 nt Takhaim	30 500 815 to 39500	199106004	Nashua	Exxon station
rater and sewer	. Wells may be off plume dwater and sewer	1	4/03 - RS	Z		E NO	1991 DW Fib No	100 Apr. regim reporteron	10000 OCE 10 0200	200501661	Collegia	Cumperiand Farms #2013
	ge II		7/04 - JD	No	-		1991 DW Fib	5200 2 of Wayne Vancy relimit	10000 801 to 5000	199105003	Constitution	Cimbadand English the 43
	replaced		9/03 - SW	N <sub>O</sub>	No?	P No	4	12200 Manifolded Gilharm relimit	101000 12200 to 10100	199102030	Ciliciesiei	CHORSE MOUI
		┙	1/03 - JD	Yes	Yes	SteNo	4	660 Manifolded Wayne Vanor Vac	14700 860 to 9080	199101053	Epping	Mobil Station
Private wells, past offsite contamir	overfill not 95 Needs watching Pi	┙	5/03 - SW	Yan	Voc	7.0	1080 DW FID	32 lo 2 pt Gibarco	41000 130 10 41000	199101036	North Hampton	North Hampton Irving
- 0000	and account		10/03 10	No	No.	O I I	1989 DW SIE NO	60.9 Coaxial, exempt	5830 60.9 to 173	199101014	Keene	Main Street Sunoco
No action   water and sewer	nas in intersti No action		9/02	25	15	CELANO	1000	Wayne vapor vac	1/000 BUL to 1300 BUL	199012002	Nashua	Cumberland Farms #2844
rved release. MtBE showing up	No wells positioned to obser	Overmo	0/03 - 60	No		Ī	DIA AAO DAGE	2 pt, Gilbarco	L	199008010	le Nashua	Shell Station - 270 Main Dunstable Nashua
TIVAC WEIS	Nouly anspectors		2/03 00	res	Yes	SteNo	1988 DW Ste No	56 Coaxial, exempt	1420 BD to 56	199008005	Conway	Rte 3 Sunoco
inch wells	blatific incorder	L	10/03 - KS	No		Fib	1983 SW Fib	67000 Manifolded, Gilbarco	67000 1800 to 67000	199007029	Concord	Former Exxon Station 3-0959
yeo	Well closest to tanks destroyed	1.						640 Wayne Vapor Vac	23500 76 to 3300	199007017	Rollingsford	Cumberland Farms #2855
	pliance	- SW not in compliance	12/01 - SW			Ste	1990 DW Ste	Exempl		199004001	Haverhill	Pike Station
No wells positioned to observed release, MIBE showing up	No wells positioned to obse		-				-	550 Wayne	27000 BDL to 550	199003013	Franklin	Cumberland Farms #2806
		overtill	1/03 - JD			Ste	1988 DW Ste	Exempl		199002010	Meredith	Meredith Irving
water and sewer	overtill on tan Notify inspectors wa	ľ	9/03 - CP	-		Ste No	1989 DW Ste No	16000 Manifolded, Exempt	16000 460 to 16000	198912002	Jaffrey	Red's of Jaffrey
water and sewer		_	10/02 - GB	No 0	Maybe	FibNo	1992 DW Fib No	5500 Manifolded, Gilbarco	5500 2 to 5500	198910066	Manchester	Exxon Station
			-	No.		-	AST	Exempt		198910044	Manchester	J. Schwartz Motor Trans
contamination into Memmack nive	Stage II test Good pilot candidate co		5/04 - HS	No	Yes	FibNo	1989 DW Fib No	33000 2 pt. Gilbarco	190000 20000 - 190000	198910032	Manchester	Texaco Station
		ų	11/03 -	No	Yes	Fib No	1989 DW Fib No	2200 Manifolded, Unknown	6500 2200 - 6500	198910013	Seabrook	Xtra Mart
	LLD & interstitial sensor	SW LLD & inter.	9/03 - SW	No		F	1990 DW Fib	2 pt, Gilbarco		198910001	Plymouth	Texaco Station
			-				_	16000 Gilbarco Retrofit	16000 272 to 16000	198909005	Newington	Cumberland Farms #70117
	gw Wg	CP 12" hole to gw	8/03 - CP	No		Fib	1985 SW Fib	Coaxial, exempt		198908043	Keene	Mobil Station
	im I	_	3/02 - SW					Exempt		198907023	Bridgewater	Joe's IGA
10/03 2 fill caps replaced, JD liquid in sCK Smith, drop in MtBE post inspi	caps replaced, JD liquid in s Ck		12/03 -JD	Š	Yes	ColNo	1993 DW Co No	239000 2 pt, Gilbarco	239000 53500 - 239000	198906048	Milford	Milford's Texaco
Water, likely offsite	Wi		5/04 - JD	No	Yes	FibNo	1993 DW Fib No	33000 2 pt Wayne Vapor Vac	110000 260 - 110000	198906010	Greenland	Cumberland Farms
	Liquid in sumps/spill buckets		8/04 - JD	No	Yes	Co No	1990 DW (	50000 2 pt. Girbarco	50000 480 - 50000	198906001	Nashua	7-Eleven
Monitoring wells in wrong location.	S	_	10/03 -RS	No.	Maybe	8		492 Wayne Vapor Vac	492 ND - 492	198904036	Concord	Former Eastman Street Exxon
Water and Sewer available, no of	Notify UST inspectors Wa	SW of @ 95%	03/03 - SW	No		No		2300 Manifolded, Balance	17000 180 - 17000	198904024	Farmington	Farmington Getty
	1		5/02 - SW	No	Probably	-ib No	1988 DW Fib No	2900 Manifolded, Unknown	18000 2000 - 18000	198904015	Hillsborough	Mr. Mike's
		WS	04/02 - SW					Exempt		198904010	Gilford	Getty Station 55235
Water well concentrations increas		,08	7/04 - F	Yes		No	1996 DW Fib No	1040 2 pt. Balance	1040 20.4 to 1040	198904007	Eppino	Getty Station 55257
	pors in interstiti	ID Spill bucket	6/04 - JD			N <sub>o</sub>		57 on 7/04 Wayne Vapor Vac	26000 44 - 18000	198903040	Conway	CFI Facility# 2849
Concentration rose before Stage I			8/04 - HS	Yes	Yes	No	1998 DW Fib No	2350 2 pt. Wayne Vapor Vac	17000 3 - 4200	198903003	Northwood	Mr Mike's
water and sewer, offsite contamina			11/03 - JD	No	Yes	No.	1988 DW Fib No	64000 2 pt Wayne Vapor Vac	120000 27 - 64000	198808012	Keens	Cumberland Farms - 162 Main St Keene
Offsite plume impacting Gas static	Action needed Offs	SW sensor	3/03 - SW	20		ib No	1892 DW Fib No	40800 Manifolded Unknown	122000 165 - 40800	198802012	Dover	Collibothor Sullow
Inspection/New Owner helped			4/03 - JD		No?	ON	1985 SW Fib No	20 on 5/04 Manifolded Wayne Vany Van	20000 - 00000	108802010	Hookinton	Creation Change
Detected offsite and in surface wa	Action needed	1	1/03 - SW	No.	No :	No No	1988 DW Fib No	8400 2 pt. Wayne Vapor Visc	22000 Old data	198706033	Durham	Charter Station
ntamination discharges into sall	Good pilot candidate		9/03 - HS	- 1	SW Impact	20	1085 CW E.B.No	ARDOD 3 of Water Vancy Van	15000 17000 15000	100705000	Wiellindex	Legaco Station
		3B CP flex con.	8/02 - GB	No	-	5 8	1989 DW Fib	Manifolded Evernal	20000	190704039	Monimort	Supreme riaza
			6/02 - TB	No	Yes	No.	1985 SW Ste No	55 Ralance	108000 55 20300	198704030	Exploid.	Decicio Modi:
		_	10/02 -GB		1		1983 SW Fib	Wann Vanor Van	20000	109702001	Dodge Control	Podford Mobil
cracked spill bucket, offsite issue	Ongoing pump n treat		12/02 - GB	No.	( )	te Yes, high BTEX	1980 SW Ste Yes	6250 Balance	150000 3580 - 7460	198609002	Manchester	Mithal Station #50
		╛	3/03 - SW	2	Macha	No.	1072 CW E	A300 Cibrary Batter	11 000 2270 4200	1000000	Ciadicio	DOWIGS WAINER
Offsite at low levels	No Closure R Notify inspectors Offs	_1_	12/03 - CP		Yes	No.		480 Exempl	5800 44 - 5800	198400068	Bradford	Rousies Market
Comments	Management Strategy Con	Findings		ease? Offsite Plume Nearby Wells Date	? Offsite Plur	Liquid Release?	Tank Type		Historical High Recent Range Last	DES ID# Historic	Town	Site Name
		Inspections	1 (	Risk Setting	Risk				Contaminant Levels	-		
			+	+	1	+	1		Potential Second Release Hacking Spreadsheet	Otential Second New	- -	
			1	-	1		-		and Tenating Compadehast	tratial Cassad Dala		

NH DES Report September 30, 2004 Page 1

Concentlant	ANAIGI AINO SOMOL	mopocardit, crack apin pu		-		1998 DW Co	/apor Vac					
Contamination   Continuity	Filvate wetts present	Inspection check spill by				DW Ste	nce	30	24000 10 70300		3	Go Go Mart
Contamination   Continuity		Inspection chack spill but				No		4	00 34000 % 76000			Northside Getty
Contamination   Continue   Cont			11/02 - JD	_	^	s, high	x Vac	2	00 35 to 34100		ad	111-Quik Stop
Contention   Crist   Crist   Content   Crist   Crist   Content   Crist   Cri					_	Yes, high BTE		1 0	00 6800 to 24000		-	cumperland Farms #2809
Committed   Comm							ODO WC	3	00 BDL to 8200		Goffstown	Compensario Farms #2831
Columbia   C19811005   C2001015 C058   ACC   Columbia   C2001015 C058   ACC   C20000   C2000	Private wells, offsite cont			Yes	Yes	INO	000 Gibaro	13	000 1960 to 13000			Cumbadand F Station #3-9827
Communication   Control Cont		uid in sumps/monitor				DV FO	n vac	55	000 BD to 50000			Former Exxon
Comment   C199110012   25000/35 to 58.8   442 pt Salaren   C199110012   C19010   25000/35 to 58.8   442 pt Salaren   C19910012   C19010						8			00 880 to 120000	_		Windham Faills #2822
1   1981 101015   25000135 10 528   442   26 Basses   Displaner   Ves. high BTEX   Displaner   Ves. high BTEX   Displaner   1003 - 180   Displaner   Rev. with Lord   Rev. vis. 11003 - 180   Displaner   Rev. with Lord   Rev. vis. 11003 - 180   Displaner   Rev. with Lord   Rev. vis. 11003 - 180   Displaner   Rev. with Lord   Rev. vis. 11003 - 180   Displaner   Rev. vis. 11003 - 180   Dis						OW				99705024	Š	Climbertand East warps
1.   1891 1017   1.   1891 1017   1.   1.   1.   1.   1.   1.   1.							Everni			199701012		OBion Committee
1   1, 1991 100   1, 1991 100   1, 1990   1,	Private wells nearby are ND						Exempt?			99602026	-	Tilton Invino
1   1, 1951 10(2), 2000(1) 50, 633	Water and sewer, may discharge t			No	1	100	Exempl		Old data	19801022	-	liars Paradise
1   199111012    25001151   10   2500   15   10   250   250   10   250   2				2	3 8	No		50	50400 to 10300		1	Francestown Village Store
1   199110018   25000195   0 5280   442   2 nt Balance   Dispension   Ves. high BTEX   Dispension   Dispension   Ves. high BTEX   Dispension   Dispension   Dispension   Ves. high BTEX   Dispension				100	2 5	DW Fib No		5	2500 to 5500		-	Irving Mainway
1   1991 10073   25000 35 to 539			1	You	Yes	DW Ste No	Silbarco				arkot	Downeast Leasing
1   1991 10023   25000 355 0 639   342   pr. Balance   Dispenser   Ves. high BTEX   1003 - SW of dispenser   Rex. cept   bent, flex con   1992 1001   1992 1010   17520 171 to 6759   202 a. b.   1002	served release, MtBE showing up	No wells positioned to ob		Yes	Yes	DW Co No				1990 1021		Kershaw's Quick Stop
1   1991 10013   25000 195 to 539		Alo mollo anoli:							200 00 10 2000		+	Waterhouse Country Store
1   1991110753   252001 35 to 6238   4472   2 nt. Bahrvas   1995 DWF Play						DW Composite	*		250 15 2600		+	Cumberland Farms #2803
199110075    25000 35 to 638   442 2 pt. Bahrna   1991 DWF Phy   19911007    19921007	INEGIOY DIOOR	giiii icai da		-	-	DW Fiberglass				199506026	-{	North Hampton Mobil
1991 10763   25070) \$5 to \$38	Piont	Need better own near is			_						Wolfeboro	Wolfeboro Irving
1   199110015   12000)   2000   20							946 Balanca		190 946 to 8190		Demy	Welfer
1						DAN LINEIGISS	100	24	000 79 to 24000		Kochester	Compensation ratifis - 2 riigniand Rochester
General Control Cont	system	Upgrade to newer Healy:		No	Tes	DW 650				199410012	меттаск	Cumbed and English and
Coloradiad   1991100163   25000 35 to 638   442 2nt Naturas   1991 PEX   1003 Set   10					3	No		55	000 3200 to 55000		Cove	Former Circle K Eijel Ston
General					+	DW Fiberolass					Douglas	Shell Station 100106
19911017   Check with Kem   2000   35 to 539   442   2pt Balmon   Dispenser   Yes, high BTEX   No   003 - SW   of, dispenser   leak, vent bent, flex cont.   1992 to 1017   1992 to 1017   1992 to 1017   1992 to 1017   1992 to 1018	Private wells	Need Level II report ASA		100		DW Steel				199407070	Pembroke	Getty Service Station #55247
199110073   25000   35 to 6338   442   2 t. balances   Dispenser   Ves. high BTEX   0.003 - SW   of. dispenser leik, vent bent, flex con.   19911017   Orleck with Kan   19911017   Orleck w			2000	Yes	Yes	DW Fiberglass					Rochester	Charlie's
199110033   25000 35 to 538   442 2 nt Bainnes   Dispenser   Ves. high BTEX   No. 03 - SW of dispenser leak, vent bent, flex con. 1991 DW Fib.   19921013   7520 71 to 6750   325 2 pt. asams   1991 DW Col No. 1992 DW Col		7	11/02 CM/ 02			DW Fiberglass			2000 2000 130000		Coffstown	Pinardville Mobil
Circle plaint   7-991101083   25000   35 to 6:39						DW Steel			-		n Rochester	Cumberland Farms - 292 N. Main Rochester
Greenland   19911007   2000   35 to 638   44   2 pt Balance   Dispenser   Ves. high BTEX   1003 - SW   of dispenser leak, vent bent, flex con.   19911017   Check with Ken.   19921017   Check with Ken.   19921017   199201013   199201021   199201021   199201021   199201021   199201021   199201021   199201021   199201021   199201022   199201023   1992010   199201023   1992010   199201023   199201023   199201023   199201023   199201023   199201023   199201023   199201023   199201023   19920103   199201023   199201023   199201023   199201023   19920103   199201023   199201023   19920103   199201023   19920103	MW-1 destroyed				Z O	DW Ste No				199312031	Wilton	Fr. Brookside Station
Circentiant   199111017   25000   35 to 638						DW Composite			00170167100		Windham	Windham Plaza
Circeroland   199110083   25000   35 to 6398   442   2t Balanca   Dispenser   Ves. high BTEX   10/03 - SW   Of dispenser leak, vent beat, flex con.   199110V Fib   199110V Fib   199210V Fib   199210V Fib   199210V Fib   199210V Fib   199210V Fib   199210V Fib   199220V Fib   1992									130 10 4500		Newmarket	Newmarket Convenience/Getty
Circerolland   799110083   25000   35 to 639					Yes				204 10 6000		Nashua	Cumberland Farms #2858
Greenland	Offsite, private well	mspecuon			×	Yes, high BTE			000 364 15 6000		Newmarket	Riverdale Automotive
Circeniand   199110083   25000   35 to 638   442   2 pt. Balance   Dispenser   Yes. high BTEX   1003 SW of. dispenser leak, vent bent flex con   Banslead   199201013   75201   10 6750   LNAPL   LNAPL   2 pt. server   1997 DW Flb   No   8/03 - HS   9/02 - JD   No   1003 SW of. dispenser leak, vent bent flex con   1997 DW Flb   No   1003 SW of. dispenser leak, vent bent flex con   1997 DW Flb   No   1003 SW of. dispenser leak, vent bent flex con   1997 DW Flb   No   1997 SW Flb   No   No   No   No   No   No   No   N	US is have been removed	Incortion			×	DW Ste Yes, high BTE			000 500 600 000		Nashua	Cumberland Farms #70115
Greenland   7199110083   25000  35 to 538   442 2 pt. Balance   Dispenser   Yes. high BTEX   10/03 - SW   Of. dispenser   leak, vent bent, flex con   Bansteed   199201013   7520  17 to 6750   325   pt. warnet vapor vac   1991 DW Fib   Restriction   199201013   7520  17 to 6750   325   pt. warnet vapor vac   1991 DW Fib   Yes. overfill   Yes   Or. dispenser   leak, vent bent, flex con   199201013		No oction				SW Fiberglass	ily 400		500 51000 to 61500		Chesterfield	Former Sherman's Country Store
Greenland							Balance		2		Bedford	Texaco Station
Greenland	water and sewer	Houry inspectors								199301027	Manchester	Former Circle K Store #20517
Greenland		Se u lametest				DW Fib No			300 30 34600		Hanover	Foodstop
Greenland   199110083   25000  35 to 638   442   2pt Balance   Dispenser   Yes, high BTEX   10/03 - SW   Of dispenser leak, vent bent, flex con in Barnstead   199201012   To 6750   325   2pt searner   1991 DW Fib   No   8/03 - HS   9/02 - D	Tank inspection detected multiple	Medus Watching			-	SW Fiberglass			in indoor air, Si con	190211004 Hgri WilbE	Manchester	Mobil Station #10967
Greenland		Production semediation				J			100 2000 1000 100	199210026 High Mide	Concord	Cumberland Farms #2890
Greenland					Ϋ,	: - Tio	por Vac	100	100 3000 10 10000		Epsom	Evans Expressman
Creenland   19911088   25000   35 to 638   442   2 pt. Balance   Dispenser   Yes. high BTEX   10/03 - SW   Of. dispenser leak, vent bent, flex con. I		Si si samp	1			Yes	Exempt		2000 1 1000		Concord	Manchester Street Sunoco
Greenland	Good well locations	for in Client	ľ							199209012	Haverhill	Gary's Fuel
Greenland		id in interesting	┙			2 DW Fiberglass	or Vac		1000 10 4000		Concord	Former Exxon, 417 S. Main
Greenland   199110013   25000   35 to 638   442   2pt Balance   Dispenser   Yes, high BTEX   10/03 - SW   of, dispenser leak, vent bent, flex con, I Banstead   199201013   7520171 to 6750   325   2pt searner   1997 DW Cilvo   No   8/03 - HS   9/02 - JD									000 3500 to 3020		Epping	CFI Facility# 2817
Greenland						6 DW Fiberglass	or Vac		000 01 020 000		Newington	Former Exxon #70118
Greenland						7 DW Fiberglass				199203034	æ	Lee Circle Mobil
Greenland	Discharge to Contoocook					8 DW Fiberglass			-	199202019	Somersworth	Quik Mart
Greenland   199110083   25000 35 to 638   442 2 pt. Balance   Dispenser   Yes, high BTEX   10/03 - SW	2	Congonia ponto incat			ĕ	o			1,000,00000		Londonderry	31 Nashua Road Services
nd /199110083 25000/35 to 638 442 z.pt. Balance   Dispenser   Yes. high BTEX 10/03 - SW 199111017   Check with Ken   Wanfolded Gillarro 1991 DW Ftb   No 8/03 - NS 199201018 7520 17 to 6/550 356  z.pt. seemet 1997 DW Co No 9/02 - ID 199201018   TALER   TA		ot overfill? Ongoing primp p took				Yes	L		000 2400 to 35000		Peterborough	Roland Auto Service
199110083   25000 35 to 638   442   2 pt. Balance   Dispenser   Yes, high BTEX   10/03 - SW   199111017   Check with Ken   1991 DW Fib   No Rull3 - LES			9/02 - 17			7 DW Co No			17 10 07	=	Bedford	Bedford Mobil
nd <199110083 25000]35 to 638 442 2 pt Balance   Dispenser   Yes, high BTEX   10/03 SW	Isolation	dispenser leak, veni bent, nex con.		No		ļ	Silbarco		190 17 to 6750	199201013	Bamstead	Bosco Bell Store
199110083 25000 35 to 638		disposes look work had be	- 1		×	Yes, high			V60 00 10 000	199111017 Chack with	Nashua	Broad Street Exxon
									000 25 1000		iGreenland	Travelport

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			2000 226 2000	STANDON POPULATION OF A STANDON	No	No	No.		Inspection wa	water and sewer
Mobil Station No. 17720	Manchester	199808045	58900 336 10 20400	200 Day Tubbin	1008 DW Fib Yes	-	No			water
Rochester Getty	Rochester	199809066	8380 BUL to 2000	Sec apt rodean	1008 DW Eibenlass					
Amerada Hess	Chichester	199809068		Mannoided rieary slep Lock	1990 D44 1 100 Biggs	+			May be a mixture of old and new plumes	1 new plumes
Cumberland Farms	Hudson	199810037	13000 3100 to 13000	3400 Wayne Vapor Vac					SVE system operating	
Pleasant Valley Variety Store	Caanan	199810046		Exempt					SVE system operating	
	Dover	199810052	140000 420 to 140000	420 2pt, Gilbarco	1999 DW Fiberglass			AIDA - ID SI	AinA In Sin Failed Stane II passed relest	
16	Rochester	199811013	190000 970 to 190000	190000 2pt, Wayne Vapor Vac	1986 DAY LIBERGIASS			100	Portion of plume comingled, well #4 only MtBE	t, well #4 only MtBE
	Hillsborough	199812218	68000 15000	5000 Wayne	1000		+			
	Strafford	199906014		2pt, Wayne Vapor Vac	1999 DAY LIBERT		+	+		
Cumberland Farms #2830	Durham	200004049	6400 740 to 2000	740 Wayne				WS-EWO	soil under dispenser, lig. Interstitial space, drop tube gaskets	e, drop tube gaskets
Cumberland Farms #2827	Raymond	200005037	50000 3400 to 44000	44000 2pt, Wayne Vapor Vac	1986 DW FID TES	V 9	N	4/03 - JD		
ExxonMobil Station	Manchester	200005043	166000 230 to 166000	230 Manifolded, Gilbarco retrofit	TRES SAL LID MO	ies	100			
Exxon Div of CFI	Hooksett	200005045	5890 531 to 2790	2000 Gilbarco Retrofit	No	20	3	7/04 - HS	Stage II failed/retest	
Exxon Div of CFI	Manchester	200005046	29000   22000 to 29000	22000 Gibarco Retront	1095 CW Eil Yes	Yes	No o	9/02 - GB	water in sumi Rapid decrease after inst water and sewer	vater and sewer
Conoco Phillips	Manchester	200005047	8/60 to 1.	10000 Mannoded, Gilbarco	1903 OFF 112 100	2 5	N	4/03 - JD	Overfill No action w	water and sewer
Conoco Phillips	Manchester	200005048	3100	STOO Marinoved, Gilbaron renom	1000 CW Cibonics			8/03 - HS	ser pa	
Former Exxon Station 3-8250	Merrimack	200005049	409000 18000 to 14000	18000 Manifolded, Gilbarco retrofit	1902 OW Fiberglass		-	9		
Mr. Mike's	Dover	200008007		2pt, Unknown	Septiment AND 6661		+		TBA sky high at 110000	
Cumberland Farms #2837	Milford	200012069	32000 .9 to 32000	17000 Wayne		-			_+	water
Shell Service Station #166713	Dover	200101053	2200 93 to 2200	93 2pt, Unknown					2001	
Former Cumberland Farms	Manchester	200108014	7900 250 to 7900	7900 Balance	0	\ \ \	25	-	_	water
Xtra Mart	Laconia	200110047	30400 2620 to 30400	2610 Coaxial, exempt	1988 DW CO 188	165	i	+		
						1				
	Tank Type Breakdown	eakdown						-		
	% 2nd Release	# Total Tanks						+		
Single wall fiberglass	16%	197			-					
Single wall others	2%	312								
Double wall fiberglass	51%	912					+			
Double wall composite	14%	1197				+				
Double wall steel	17%	1436								-
						-				
Fiberglass >= 10 yrs	46%									
Tank >= 10 \m	7.74	_	_							

13 Park per Billion

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